Control Of Gene Expression In Prokaryotes Pogils

Post-transcriptional Control of Gene Expression Orna Resnekov 2013-06-29 Many important cellular processes rely on posttranscriptional control of gene expression. This book describes the mechanisms of gene expression at this level that occur in the cytoplasm of prokaryotes and eukaryotes. Several introductory chapters discuss the general principles of translation and mRNA stability. The interactions of mature mRNA with the translational machinery, the components of mRNA degradation and antisense RNA are surveyed. Subsequent chapters discuss protein folding, transport, modification and degradation. The book is an invaluable source of information for both newcomers and those wishing an overview of the field.
Exploring the Design Principles of Orthgonal Transcription Control Systems Shaunak Kar 2021 The last two decades has witnessed an unprecedented growth in our ability to engineer biological systems for a wide range of applications ranging from the development of smart therapeutics, production of valued products and chemicals and engineering crops with programmable traits and much more. At the core of these capabilities has been the design and characterization of synthetic genetic programs that has enabled the predictable programming of cellular behavior and phenotypes. A fundamental challenge in the construction of such circuits and programs is being able to design and model them against a variety of organismal backgrounds, which can be often difficult to predict and can lead to circuit failure when systems are ported across organisms. Such failure modes can potentially be mitigated by embedding orthogonal modes of transcriptional control and regulation in genetic programs to drive the expression of the circuit components in both prokaryotes as well as eukaryotes. Specifically, in prokaryotes, we demonstrate how an autoregulated network controlling the expression of an orthogonal RNA polymerase - T7 RNA polymerase, can be utilized to precisely express target genes in a highly predictable manner dictated by mutant T7 RNAP promoters. Furthermore, with the use of a modular architecture we show how such expression systems can be readily ported across diverse prokaryotes. In each species, the relative strength of expression obtained from the T7 RNAP homeostasis circuit is nearly identical, suggesting T7 RNAP driven expression systems can be utilized as predictable cross-species gene expression platform. In another example, orthogonal transcriptional regulation was engineered in a complex eukaryote (plants) using a programmable transcription factor - dCas9:VP64 and a set of designed synthetic promoters whose activity can precisely regulated with the expression of specific guide RNAs (gRNAs). This strategy was used to construct three mutually orthogonal promoters, allowing multiplexed control of gene expression in plants. Overall, the design strategies and architectures described in this work can be used to explore the design of more complex circuits where the activity of T7 RNAP can be coupled to regulate the activity of dCas9 based transcription to generate circuits operating across kingdoms of life
Control of Gene Expression Norman Maclean 1976 The control of gene expression and its levels of action; Gene expression in prokaryotes; Experimental systems of differential gene fuction in eukaryotes-systems involving one type of protein; Experimental systems of differential gene fuction in eukaryotes-systems of limited complexity; Experimental systems of differential gene fuction in eukaryotes-systems not well understood in molecular terms; RNA involvement in gene expression; General concepts of gene regulation.
Regulation of Gene Expression in Eukaryotic Cells Maureen I. Harris 1974
EUKARYOTIC GENE REGULATION Gerald M. Kolodny 1980
Molecular Mechanisms in the Control of Gene Expression Donald P. Nierlich 1977
Post-Transcriptional Control of Gene Expression in Plants Witold Filipowicz 2012-12-06 A recent volume of this series (Signals and Signal Transduction Pathways in Plants (K. Palme, ed.) Plant Molecular Biology 26, 1237-1679) described the relay races by which signals are transported in plants from the sites of stimuli to the gene expression machinery of the cell. Part of this machinery, the transcription apparatus, has been well studied in the last two decades, and many important mechanisms controlling gene expression at the transcriptional level have been elucidated. However, control of gene expression is by no means complete once the RNA has been produced. Important regulatory devices determine the maturation and usage of mRNA and the fate of its translation product. Post-transcriptional regulation is especially important for generating a fast response to environmental and intracellular signals. This book summarizes recent progress in the area of post-transcriptional regulation of gene expression in plants. 18 chapters of the book address problems of RNA processing and stability, regulation of translation, protein folding and degradation, as well as intracellular and cell-to-cell transport of proteins and nucleic acids. Several chapters are devoted to the processes taking place in plant organelles.
Interaction of Translational and Transcriptional Controls in the Regulation of Gene Expression Marianne Grunberg-Manago 2012-12-02 Interaction of Translational and Transcriptional Controls in the Regulation of Gene Expression presents the proceedings of the Fogarty International Conference on Translational/Transcriptional Regulation of Gene Expression, held at the National Institutes of Health in Bethesda, Maryland, on April 7-9, 1982. Speakers discussed the molecular strategies at work during the modulation of gene expression following transcriptional initiation. They also discussed recent developments in a number of key areas in which transcriptional and translational components interact. Organized into five sections encompassing 36 chapters, this volume explores both prokaryotic and eukaryotic systems, as well as structure-function correlations. It begins with an overview of translational/transcriptional controls in prokaryotes, the regulation of gene expression by transcription termination and RNA processing, and the structure and expression of initiation factor genes. It then examines the effect of the codon context on translational fidelity, including mistranslation of messenger RNA; protein synthesis for the construction of cell architecture; regulation of initiation factor activity; and translational regulation in cells. This book is a valuable resource for Fogarty International Scholars who want to broaden their knowledge and contribute their expertise to the National Institutes of Health community.
Regulation of Gene Expression in Plants Carole L. Bassett 2007-02-15 Except for one area of gene expression control, plant research has significantly fallen behind studies in insects and vertebrates. The advances made in animal gene expression control have benefited plant research, as we continue to find that much of the machinery and mechanisms controlling gene expression have been preserved in all eukaryotes. Through comparison, we have learned that certain aspects of gene regulation are shared by plants and animals, i.e. both contain introns separating the coding regions of most genes and both utilize similar machinery to process the introns to form mature mRNAs. Yet there are some interesting differences in gene structure and regulation between plants and animals. For example, unlike animal genes, plant genes are generally much smaller with fewer and smaller introns. Regulation of Gene Expression in Plants presents some of the most recent, novel and fascinating examples of transcriptional and posttranscriptional control of gene expression in plants and, where appropriate, provides comparison to notable examples of animal gene regulation.
Mechanisms Of Gene Expression: Structure, Function And Evolution Of The Basal Transcriptional Machine Robert O J Weinzierl 1999-08-10 A detailed knowledge of the mechanisms underlying the transcriptional control of gene expression is of fundamental importance to many areas of contemporary biomedical research, ranging from understanding basic issues (such as control of embryonic development) to practical applications in industry and medicine. Although elementary concepts of gene expression are described in all general molecular biology textbooks, the depth of coverage is often rather limited and recent discoveries are sometimes not adequately taken into consideration.This book presents much of the current thinking concerning molecular mechanisms of transcriptional control in a form easily accessible to undergraduates with an understanding of basic molecular biology concepts. It contains detailed information about the various pro- and eukaryotic transcriptional machineries that has recently become available through the combined efforts of geneticists, biochemists and structural biologists. The book will thus not only serve as an undergraduate text but also offer something new and interesting to more advanced readers and professional scientists who want to keep up to date with rapid advances in this field.

Plant Promoters and Transcription Factors Lutz Nover 2013-06-29 The control of plant gene expression at the transcriptional level is the main subject of this volume. Genetics, molecular biology and gene technology have dramatically improved our knowledge of this event. The functional analysis of promoters and transcription factors provides more and more insights into the molecular anatomy of initiation complexes assembled from RNA polymerase and the multiplicity of helper and control proteins. Formation of specific DNA-protein complexes - activating or repressing transcription - is the crux of developmental or environmental control of gene expression. The book presents an up-to-date, critical overview of this rapidly advancing field.

Gene Control David S. Latchman 2025 "The new edition of Gene Control, for the first time, provides extensive coverage on prokaryotic gene regulation, which makes it the only textbook offering a complete and detailed account of gene control for both prokaryotic and eukaryotic organisms. The core objective of this edition is to educate students about the fundamental principles and mechanisms governing gene expression, regulation, and function. To reinforce these ideas, each chapter now includes discussion questions to promote critical thinking. There are also multiple choice questions and animations for students, and a large question bank and figure slides for instructors. The textbook also emphasizes the vital role of scientific experiments and evidence in shaping our current understanding of gene control and provides comprehensive coverage of essential gene expression techniques and methodologies throughout the book"--

Biological Regulation and Development Robert Goldberger 2012-12-06 The motivation for us to produce a treatise on regulation was mainly our convic tion that it would be fun, and at the same time productive, to approach the subject in a way that differs from that of other treatises. We had ourselves written reviews for various volumes over the years, most of them bringing together all possible facts relevant to a particular operon, virus, or biosynthetic system. And we were not convinced of the value of such reviews for anyone but the expert in the field reviewed. We thought it might be more interesting and more instructive-for both author and reader-to avoid reviewing topics that anyone scientist might work on, but instead to review the various parts of what many different scientists work on. Cutting across the traditional boundaries that have separated the subjects in past volumes on regulation is not an easy thing to do-not because it is difficult to think of what interesting topics should replace the old ones, but because it is difficult to find authors who possess sufficient breadth of knowledge and who are willing to write about areas outside those pursued in their own laboratories. For example, no one scientist works on suppression per se. He may study the structure of suppressor tRNAs in Escherichia coli, he may study phenotypic suppression of various characters in drosophila, he may study polarity in gene expression, and so on.

Eucaryotic Gene Regulation Richard Axel 2012-12-02 Eukaryotic Gene Regulation covers the aspects and mechanisms of gene regulation of selected eukaryotes, such as yeast, Drosophila, and insect. This book is organized into eight parts, encompassing 52 chapters. The majority of the chapters are presented in an experimental manner containing an abstract, methods, results and discussion, and conclusion. This book first gives a short overview of the evolutionary role of interspersion in eukaryotic genes. It then presents considerable chapters on control of gene expression in yeast; gene mutation and isolation; structure and function; and analysis. Part III focuses on genetic and DNA sequence analysis in Drosophila. It includes discussions on allelic complementation and transvection, genetic organization, histone gene, and gene transcription. Part IV examines cell lineage; gene expression and sequences; and protein synthesis of insects, sea urchin, and mammalian cells. This is followed by discussions on structure and expression of specific eukaryotic genes from chicken, rat, rabbit, and human. Topics on the transfer of genetic information within and between cells and the structure and function of chromosome are significantly considered in Parts VI and VII. Genes evaluated in these sections include heavy chain immunoglobulin, light chain, beta-globin, and dihydrofolate reductase. Furthermore, this book describes the in vitro transcription and the factors involved; internal organization and mechanism of assembly of nucleosome; and chromatin structure. The concluding section focuses on aspects of viral genome expression including gene regulation, synthesis, processing, and alternative RNA splicing. Research biologists, geneticists, scientists, teachers, and students will greatly benefit from this book.

Translational Regulation of Gene Expression 2 J. Ilan 2012-12-06 This book, which results from the dramatic increase in interest in the control mechanism employed in gene expression and the importance of the regulated proteins, presents new information not covered in Translational Regulation of Gene Expression, which was published in 1987. It is not a revision of the earlier book but, rather, an extension of that volume witl, special emphasis on mecha nIsm. As the reader will discover, there is enormous diversity in the systems employing genes for translational regulation in order to regulate the appearance of the final product-the protein. Thus, we find that important proteins such as protooncogenes, growth factors, stress proteins, cytokines, lymphokines, iron storage and iron-uptake proteins, and a panorama of prokaryotic proteins, as well as eukaryotic viral proteins, are translationally regulated. Since for some gene products the degree of control is greater by a few orders of magnitude than their transcription, we can state that for these genes, at least, the expression is translationall y controlled. Translational regulation of gene expression in eukaryotes has emerged in the last few years as a major research field. The present book describes mechanisms of translational regulation in bacteria, yeast, and eukaryotic viruses, as well as in eukaryotic genes. In this book we try to provide in-depth coverage by including important examples from each group rather than systematically including all additional systems not described in the previous volume.

Control of Gene Expression by Cell Size Chia-Yung Wu 2010 Polyploidy, increased copy number of whole chromosome sets in the genome, is a common cellular state in evolution, development and disease. Polyploidy enlarges cell size and alters gene expression, producing novel phenotypes and functions. Although many polyploid cell types have been discovered, it is not clear how polyploidy changes physiology. Specifically, whether the enlarged cell size of polyploids causes differential gene regulation has not been investigated. In this thesis, I present the evidence for a size-sensing mechanism that alters gene expression in yeast. My results indicate a causal relationship between cell size and gene expression. Ploidy-associated changes in the transcriptome therefore reflect transcriptional adjustment to a larger cell size. The causal and regulatory connection between cell size and transcription suggests that the physical features of a cell (such as size and shape) are a systematic factor in gene regulation. In addition, cell size homeostasis may have a critical function - maintenance of transcriptional homeostasis.

Translational Regulation of Gene Expression J. Ilan 2013-11-11

Modulating Prokaryotic Lifestyle by DNA-Binding Proteins Tatiana Venkova 2017-03-07 The Overview of the Topic was the following: "One of the most active areas of research in molecular microbiology has been the study of how bacteria modulate their genetic activity and its consequences. The prokaryotic world has gained a lot of interest. In addition to the above, the invention is based on the subject-matter of the present invention, which is incorporated herein by reference in its entirety. All of these processes are fundamental to the operation of a genetic entity and condition their lifestyle. Further, the discoveries in the bacterial world have been of ample use in eukaryotes. [Article in German] Hansen, Hansen, H. (2003). In addition to the fundamental interest in understanding modulation of prokaryotic lifestyle by DNA binding proteins, As it is well-known the antibiotic-resistance strains of pathogenic bacteria are a major world problem, so that there is an urgent need of innovative technologies to tackle it. Most of the patients are infected with the virus. It is an imperative of finding new alternatives to the 'classical' way of treatment of bacterial infections and these new alternatives. Nevertheless, These new alternatives will find a dead-end if we are unable to obtain a better understanding of the basic processes modulating bacterial gene expression. Our goal is to achieve our understanding of protein-DNA interactions. First, the topic will bring together a lot of very active research in the study of gene replication, gene regulation, the strategies. We therefore want to acquire an in-depth knowledge of some of the mechanisms of gene regulation, gene transfer, and gene replication. Further, the readers of the papers will realize the importance of the topic and will learn the most recent thinking, results, and approaches in the area ". We are fully confident that we have exceeded our expectations. Now we are proud to present the final output of the topic, which is the eBook. It includes 24 articles contributed by 118 authors. As of today, March, 16th, January 2017, the total number of readings has reached 19,284, 14,921 article views, and 2,944 article downloads.

Posttranscriptional Regulation of Gene Expression in Prokaryotes Paul Ervin Anderson 2000

Regulation of Gene Expression Gary H. Perdew 2008-08-17 The use of molecular biology and biochemistry to study the regulation of gene expression has become a major feature of research in the biological

sciences. Many excellent books and reviews exist that examine the experimental methodology employed in specific areas of molecular biology and regulation of gene expression. However, we have noticed a lack of books, especially textbooks, that provide an overview of the rationale and general experimental approaches used to examine chemically or disease-mediated alterations in gene expression in mammalian systems. For example, it has been difficult to find appropriate texts that examine specific experimental goals, such as proving that an increased level of mRNA for a given gene is attributable to an increase in transcription rates. Regulation of Gene Expression: Molecular Mechanisms is intended to serve as either a textbook for graduate students or as a basic reference for laboratory personnel. Indeed, we are using this book to teach a graduate-level class at The Pennsylvania State University. For more details about this class, please visit http://moltox. cas. psu. edu and select “Courses. ” The goal for our work is to provide an overview of the various methods and approaches to characterize possible mechanisms of gene regulation. Further, we have attempted to provide a framework for students to develop an understanding of how to determine the various mechanisms that lead to altered activity of a specific protein within a cell.

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